

Amendments to the Claims:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Previously Presented) The method according to claim 15 wherein the ratio between the supplied power to said one or more electrodes and the surface of said electrodes is not greater than $0,5 \text{ W/cm}^2$.
7. (Previously Presented) The method according to claim 15, wherein said time interval is between .5 and 5 minutes.
8. (Previously Presented) A device carrying out a method for recovering the permeability of cell walls of muscles under the skin comprising:

one or more electrodes of essentially laminar shape connected to the electronic device, for application to the skin by adherence comprising:

a radio frequency circuit; a rectifier circuit for supplying a voltage, to the radiofrequency circuit; said radiofrequency circuit comprising an electronic switch fed by said voltage; a piloting circuit feeding the switch, wherein said radiofrequency circuit produces a distorted sinusoidal output wave of about 4 MHz including harmonics of at least the second and third order;

a broadband resonant circuit, said output wave circulating in the broadband resonant circuit at the frequency of a pure wave of said distorted sinusoidal output wave.

9. (Previously Presented) The device according to claim 8 wherein said electronic switch has capacitance and the radio frequency circuit includes a primary transformer having inductance and the resonant circuit includes the capacitance of the switch and the inductance of the transformer primary circuit feeding said one or more electrodes.
10. (Previously Presented) The device according to claim 8 including a controller and the piloting circuit is connected to the controller circuit comprising a microprocessor feeding said pilot circuit, said microprocessor interrupts pilot circuit at prefixed intervals, so that the output wave in the resonant circuit takes the form of a intermittent train of pulses comprising an amplitude modulated wave.
11. (Previously Presented) The device according to claim 8 including a regulator for modifying the voltage of the piloting circuit and wherein the amplitude of the wave form appearing at the electrode is variable by means of said regulator.
12. (Previously Presented) The device according to claim 8 wherein the amplitude of the wave form at the electrode is variable by the modification of the rectified voltage feeding said radiofrequency circuit, and the direct voltage being maintained constant by the voltage feeding the piloting circuit.
13. (Previously Presented) The device according to claim 8 including a regulator for modifying the voltage of the piloting circuit, and wherein the amplitude of the wave form at the electrode is variable by the modification of the rectified direct voltage which feeds said radiofrequency circuit and by means of the regulator which modifies the voltage of the piloting circuit.
14. (Previously Presented) The device according to claim 8 wherein said electrodes include an adhesive surface for application and relatively easy removal from the skin.
15. (Currently Amended) A method for recovering the permeability of cell walls of muscles under the skin, comprising the steps of:

applying laminar electrodes to the skin;

generating electric current waves in a radio frequency circuit having an electronic switch and a piloting circuit;

supplying a voltage from a rectifier circuit to the radiofrequency circuit;

feeding the voltage from the pilot to the switch of the radiofrequency circuit;

producing in said electric current waves of the radiofrequency circuit having a distorted sinusoidal shape and a relatively high frequency of about 4 MHz including harmonics of at least the second and third order;

connecting the generated distorted electric current waves to the electrodes;

maintaining the distorted electric current waves on the electrodes for a selected time interval and at a power level of about 40-50 W

connecting the one or more electrodes of essentially laminar shape connected to the electronic device, for application to the skin by adherence comprising:

circulating in a broadband resonant circuit, said output wave circulating in the broadband resonant circuit at the frequency of a pure sinusoidal wave of said distorted electric current sinusoidal output wave.